

P- loop

Ae-dNK	MAAAIGPERLG---VA[GKKPFTVF EGNIGSGKTTFLNHFEKFKDR CCLTEPVEKWRDC
Ag-dNK	-MPPIASE[LG---AS[GKKPFTVF EGNIGSGKTTFLNHFQKFND-I CCLTEPVEKWRNC
Dm-dNK	MAEAASCARKGTYAEGTQPFTVL EGNIGSGKTT LNHFEK KNDICLLTEPVEKWRNV
Bm-dNK	-----MS-----ANNV[KPFTVF EGNIGSGKTTFL EHE RQFED-J TLLTEPVEMWRLD

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Ae-dNK	GGVNLLDLMYK PHRWAMPFQ YVTLTMLNMHTYQTDKSVKL MERSMF SARYCFVENMLA
Ag-dNK	GGVNLLDLMYK SHRWAMPFQ YVTLTMLDMHTCQTDKSVKL MERSLSF SARNCFVE SMLA
Dm-dNK	NGVNLLDLMYK PKKWAMPFQ SYVTLTMLQSHTIAPTNNKKIK MERS FSARYCFVENMRR
Bm-dNK	KGCNLLDLMYK SPEKWAMTEQSYVSLTMLDMHRRPAPTPVKL MERSLF SARYCFVE HDMR

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Ae-dNK	SGSLHQGMYN LQEWEFIFIHANIHIQADLIVYLRTSPE VYERMKKRARSEESCVPLKYI
Ag-dNK	SGSLHQGMYNVLQEWYDFIICCNHIQADLIVYLQTSPEVYERMKQRARSEESCVPLEYL
Dm-dNK	NGSLEQGMYN LLEEWYKFIIEESIH QADLI YLRTSPEVAYERIRQRARSEESCVPLKYI
Bm-dNK	NNILHPAQFAVLDWRFIQHNIPIDADLIVYLRTSPS VYQRIKKRARSEECVPLSYI

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Ae-dNK	QELHELHENWLIHGTFPRV-APVLVLDADLDLHNISSEYKRSETSILK---PILIDNTNQ
Ag-dNK	KELHELHENWLIHGASPRP-APVLVLDADLDLNTGAEYERSETSILK---PILIENTNQ
Dm-dNK	QELHELHEDWLIHQRRPQS-CKVLVLDADLNLENIGTEYQRSESSIFD---AIS-SNOOP
Bm-dNK	EELHRLHEDWLIINRIHAECPAPVLVLDADLDLS ITDEYKRSEHQIIIRKAVNWMSSPNK

nuclear import signal

Ae-dNK	H---- PILASPSKRSRTEF--
Ag-dNK	H---- AILTSPAKRAKTDF--
Dm-dNK	S---- PVLVSPSKRQBVAR--
Bm-dNK	HSPKKPIST PTKTI PHMRIL

Fig. 1